

Indian Standard

(Reaffirmed 2004)

SPECIFICATION FOR
PINS, PAPER, STRAIGHT

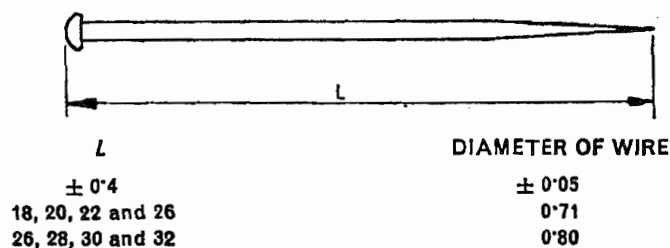
(Reaffirmed 2014)

(First Revision)

1. Scope — Specifies requirements for straight paper pins used for fastening of papers.

2. Material — Copper coated mild steel wire having minimum tensile strength of 685 N/mm² (70 kgf/mm²).

3. Shape and Dimensions — As shown in Fig. 1.



All dimensions in millimetres

FIG. 1 PAPER PINS, STRAIGHT

4. Workmanship and Finish — The pins shall have a well-formed round head and a sharp taper-pointed end so as to be able to fasten at least the following number of sheets of 60 g/m² paper without undue pressure on hand at the time of pinning:

Length of Pin mm	Number of Sheets of Paper
18, 20, 22, 26 (0.71 dia)	8
26 (0.80 dia) and 28	10
30 and 32	12

The pins shall be sufficiently strong and shall not bend in use. The pins shall be free from seams, cracks, burrs, pits and blemishes of any kind when viewed under 10 X magnification. The pins shall be clean and tumbled bright and shall be nickel plated.

5. Corrosion Resistance Test — The pins shall be dipped in a solution of mineral spirit to remove any surface film or grease, and wiped dry. Five pins shall then be fastened to a strip of 75 × 50 mm of 60 g/m² white writing and printing paper [see IS 1848-1981 Specification for writing and printing papers (second revision)]. Two such strips shall then be placed on porcelain surface of the desiccator, the bottom of which shall be filled with 5 percent (m/m) aqueous solution of sodium chloride. The desiccator shall then be closed and allowed to stand for 24 hours. On removal from desiccator, the pins shall not show any sign of corrosion on point or the body of it when compared with the sample kept under identical conditions but without any aqueous solution in the desiccator.

6. Packing — 100 g of pin shall be packed in a box made of duplex board or pulp board of substance not less than 300 g/m². The box shall be closed with gummed paper tape at both ends. Five such boxes shall then be packed in a bigger box made of board (excluding mill board) of substance not less than 500 g/m². Each bigger box shall be suitably closed by pasting tape around it to prevent tempering. Alternatively, it may be packed as agreed to between the purchaser and the supplier.

7. Marking — Each box or bigger box containing pins shall be clearly and indelibly marked with the following information:

- Manufacturer's name, initials or recognized trade-mark;
- Size;

- c) Net weight of the pins;
- d) Batch number;
- e) Year of supply; and
- f) Any other marking required by the purchaser.

7.1 Standard Marking — Details available with the Bureau of Indian Standards.

8. Sampling — Sampling scheme and acceptance criteria shall be as agreed to between the manufacturer and the purchaser. However, a recommended scheme for the same is given in Appendix A.

APPENDIX A

(Clause 8)

SAMPLING CRITERIA FOR CONFORMITY OF PINS, PAPER

A-1. Lot

A-1.1 In any consignment of the packets of paper pins of same dimensions produced under similar conditions out of the same material shall be grouped together to constitute a lot.

A-1.2 The number of packets to be selected from each lot shall depend on the size of the lot and shall be in accordance with Table 1. More or less, an equal number of paper pins shall be chosen from the selected packets to constitute a sample size as given in Table 1.

TABLE 1 SAMPLE SIZE AND CRITERIA FOR CONFORMITY.

(Clauses A-1.2 and A-2.1)

No. of 100 g Packets	No. of Packets for Visual Inspection	No. of Pins for Dimensional Checking	No. of Pins for Corrosion Resistance Test	Acceptance No.
Up to 100	5	20	10	0
101 „ 300	10	40	20	0
301 „ 500	15	60	30	2
501 and above	20	80	40	4

A-1.2.1 These paper pins shall be selected at random from the lot and for this purpose procedure given in IS : 4905-1968 'Methods for random sampling' shall be followed.

A-2. Number of Tests and Criteria for Conformity

A-2.1 The number of paper pins selected at random in accordance with Table 1 shall be tested for dimension and corrosion resistance test. The lot shall be considered as conforming to these requirements if the number of defective paper pins found in the sample is less than or equal to the corresponding permissible number of defectives as given in Table 1.

A-2.1.1 The lot shall be conforming to the standard if A-2.1 is satisfied.

A-3. If paper pins, are packed in big packets, the sample shall be selected randomly by 10 percent with a minimum of 1.

EXPLANATORY NOTE

In this revision of the standard, the main changes are in the requirement of material, workmanship and finish, corrosion resistance test and packing.